## What is claimed is:

- 1 1. A conductive gasket for providing a low-impedance contact
- 2 between a first surface and a second surface, said gasket
- 3 comprising:
- a flexible cover for contacting the first surface on an
- s exterior face of said conductive cover when said gasket is
- 6 compressed;
- a contact strip disposed on an anterior face of the
- 8 conductive cover and having a plurality of protrusions disposed
- 9 thereon for improving contact between said gasket and said first
- surface when said gasket is compressed; and
- a conductive path between said second surface and at least
- one of said flexible cover and said contact strip for providing a
- 13 low-impedance path between said first surface and said second
- surface when said gasket is compressed.
- 2. The conductive gasket of Claim 1, wherein said contact strip
- is a metal contact strip and said protrusions are conductive
- 3 projections from an exterior face of said contact strip facing
- said anterior face of the conductive cover, and wherein said
- 5 conductive projections pass through said flexible cover when said
- 6 gasket is compressed.
- 1 3. The conductive gasket of Claim 2, wherein said conductive
- 2 cover is a wire mesh, whereby said conductive projections pass
- 3 through said wire mesh by displacing said wire mesh when said
- 4 gasket is compressed.
- 1 4. The conductive gasket of Claim 2, wherein said protrusions
- 2 extend through said conductive cover when said gasket is
- 3 uncompressed and pass further through said flexible cover when
- 4 said gasket is compressed.

- 5. The conductive gasket of Claim 2, wherein said flexible cover
- 2 includes a plurality of perforations therethrough and aligned
- with said projections, whereby said conductive projections pass
- 4 through said perforations when said gasket is compressed.
- 6. The conductive gasket of Claim 2, wherein said flexible cover
- 2 is a flexible plastic strip having a conductive coating on at
- 3 least said exterior surface.
- 7. The conductive gasket of Claim 1, further comprising a
- 2 compressible foam layer disposed on an anterior face of said
- 3 contact strip facing away from said anterior face of said
- 4 flexible cover for applying force to said contact strip when said
- 5 gasket is compressed.
- 8. The conductive gasket of Claim 7, further comprising a second
- 2 compressible foam layer disposed on an exterior face of said
- 3 contact strip between said contact strip and said flexible cover
- 4 for maintaining a shape of said gasket.
- 9. The conductive gasket of Claim 1, wherein said compressible
- 2 foam layer is a conductive foam layer, and wherein said
- 3 conductive path is provided by contact between said contact strip
- and said second surface via contact between said contact strip
- and said conductive foam and further provided by contact between
- 6 said conductive foam and said second surface.
- 1 10. The conductive gasket of Claim 1, wherein said protrusions
- bend said flexible cover, but do not penetrate said flexible
- 3 cover when said gasket is compressed, whereby electrical contact
- 4 with said first surface is improved by bends in said flexible
- 5 cover.

- 1 11. The conductive gasket of Claim 1, wherein said conductive
- 2 path is provided by contact between said contact strip and said
- 3 second surface.
- 1 12. The conductive gasket of Claim 1, wherein said flexible cover
- is a conductive cover, and wherein said conductive path is
- 3 provided by contact between said cover and said second surface.
- 1 13. The conductive gasket of Claim 1, wherein said contact strip
- 2 is a metal contact strip and said protrusions are conductive
- 3 projections extending from both an exterior face and an anterior
- face of said contact strip, wherein said conductive projections
- 5 pass through said flexible cover when said gasket is compressed,
- and wherein said protrusions extending from said anterior face
- 7 provide at least a portion of said conductive path via contact
- with said second surface.
- 1 14. The conductive gasket of Claim 1, wherein said contact strip
- is a first metal contact strip, said protrusions are first
- 3 conductive projections extending from an exterior face of said
- 4 contact strip, wherein said first conductive projections pass
- through said flexible cover when said gasket is compressed, and
- 6 further comprising:
- a second metal contact strip disposed at a predetermined
- 8 angle greater than zero in an axis perpendicular to a
- 9 longitudinal extension of said gasket and having second
- conductive projections disposed on an exterior face thereof,
- wherein said flexible cover is further disposed over said second
- metal contact strip, and wherein said second conductive
- 13 projections pass through said flexible cover to contact said
- second surface when said gasket is compressed.

- 1 15. The conductive gasket of Claim 1, wherein said contact strip
- 2 is in the form of a cylindrical conductor, and wherein said
- 3 protrusions extend radially from a central axis of said
- 4 cylindrical conductor.

- 1 16. A conductive gasket for providing a low-impedance contact
- 2 between a first surface and a second surface, said gasket
- 3 comprising:
- a wire mesh cover for contacting the first surface on an
- s exterior face of said conductive cover when said gasket is
- 6 compressed;
- a contact strip disposed on an anterior face of the
- 8 conductive cover and having a plurality of protrusions disposed
- 9 thereon for penetrating said wire mesh cover when said gasket is
- 10 compressed;
- a first compressible foam layer disposed on an anterior face
- of said contact strip facing away from said anterior face of said
- 13 flexible cover for applying force to said contact strip when said
- 14 gasket is compressed;
- a second compressible foam layer disposed on an exterior
- 16 face of said contact strip between said contact strip and said
- wire mesh cover for maintaining a shape of said gasket; and
- a conductive path between said second surface said flexible
- 19 cover, whereby a low impedance is established between said second
- surface, said wire mesh cover and said contact strip when said
- 21 gasket is compressed.

- 1 17. A method for manufacturing a conductive gasket, said method comprising:
- forming a contact strip having a plurality of protrusions
- 4 disposed thereon for improving electrical contact of said gasket
- when said gasket is compressed; and
- covering said contact strip with a flexible cover to form
- 7 said gasket, whereby said protrusions pass through said flexible
- 8 cover when said gasket is compressed.
- 1 18. The method of Claim 17, wherein said covering comprises
- wrapping a wire mesh cover around said contact strip.
- 1 19. The method of Claim 17, further comprising placing said
- 2 contact strip over a compressible foam layer prior to said
- 3 covering, and wherein said covering covers said compressible foam
- 4 layer and said contact strip.
- 1 20. The method of Claim 17, further comprising forming
- 2 perforations in said flexible cover prior to said covering,
- 3 whereby said protrusions pass through said perforations in said
- 4 cover.